



PTO/SB/21 (09-04)

Approved for use through 07/31/2006..OMB.0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/645,987	
	Filing Date	August 22, 2003	
	First Named Inventor	Tirthankar Lahiri	
	Art Unit	2189	
	Examiner Name	Reba I. Elmore	
Total Number of Pages in This Submission	641	Attorney Docket Number	OI7030762001

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (4 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO/SB/08B (3 pages); 43 references and postcard for acknowledgment of receipt.
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Bingham McCutchen		
Signature			
Printed Name	Gerald Chan		
Date	April 14, 2006	Reg. No.	51,541

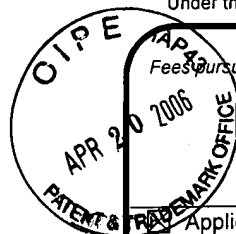
CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Laura A. Huntington	Date	April 14, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL for FY 2006

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) **180.00**

Complete if Known

Application Number	10/645,987
Filing Date	August 22, 2003
First Named Inventor	Tirthankar Lahiri
Examiner Name	Reba I. Elmore
Art Unit	2189
Attorney Docket No.	107030762001

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : _____

☒ Deposit Account Deposit Account Number: **50-2518** Deposit Account Name: **Bingham McCutchen LLP**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments

Under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

	Small Entity Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____ -20 or HP= _____ x _____ = _____	_____	_____

Total Claims **Extra Claims** **Fee(\$)** **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee(\$)** **Fee Paid (\$)**

_____ - 3 or HP= _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	/ 50 = _____	(round up to a whole number) x		= _____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge) : Information Disclosure Statement Submission

Fees Paid (\$)
\$180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	51,541	Telephone	(650) 849-4960
Name (Print/Type)	Gerald Chan	Date	April 14, 2006		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT
Docket No. OI7030762001

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Dated: 4/14/06

Laura A. Huntington
Laura A. Huntington

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Tirthankar Lahiri et al.

Serial No.: 10/645,987

Filing Date: August 22, 2003

For: REDUCING DISK IO BY FULL-CACHE
WRITE-MERGING

Confirmation No.: 8636

Examiner: Reba I. Elmore

Group Art Unit: 2189

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

04/20/2006 SDENB0B1 00000029 502518 10645987
01 FC:1806 180.00 DA

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement (IDS) are being brought to the attention of the Office. The items are listed on the attached forms PTO/SB/08B. The Examiner is requested to make these documents of record.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant(s) is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant(s) as such.

1. Timing of the Information Disclosure Statement:

☐ This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) with the new patent application submitted herein (37 CFR § 1.97(a)); or (2) within

three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d) or (3) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (4) before the mailing of a first Office action on the merits; or (5) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

- ☐ However, if the undersigned is in error in this regard, Applicant(s) respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
- ☐ However, if the undersigned is in error in this regard, Applicant(s) respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
- ☒ This IDS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office Action on the merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311.
 - ☒ Charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
 - ☐ The fee due under 37 CFR § 1.17(p) is being concurrently submitted with the filing of an electronic IDS submission. Thus, no additional fee is required.
 - ☐ A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant(s) respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
- ☐ This IDS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement under 37 CFR § 1.97(e) is included below. Charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
- ☐ This IDS is being submitted under 37 CFR § 1.97(i), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee.

STATEMENT UNDER 37 CFR § 1.97(e):

- ☐ That each item of information contained in the IDS was first cited in any communication

from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or

☐ That no item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the IDS.

2. Copies of the Cited Items:

☒ Copies of all of the items listed on the attached forms PTO/SB/08B are enclosed.

☐ Copies of only the following items listed on the attached forms PTO/SB/08A (Item Nos. *) and PTO/SB/08B (Item Nos. *) are enclosed.

☐ Copies of the following items listed on the attached form PTO/SB/08A (Item Nos. *) are not enclosed. See 37 CFR 1.98(a)(2)(i).

☐ Copies of the following documents listed in PTO/SB/08A (Item Nos. *) and PTO/SB/08B (Item Nos. *) are not supplied as they were previously cited by the Office or submitted in Information Disclosure Statements in related applications (Application No. *, filed *) and relied upon in this application for an earlier filing date under 35 USC § 120. See 37 CFR § 1.98(d). The Examiner is requested to make these documents of record.

☐ Copies of the following items listed on the attached forms PTO/SB/08A (Item Nos. *) and PTO/SB/08B (Item Nos. *) were cited in a foreign examination report in a related case. A copy of the search report and the cited references not already of record in this application are attached hereto.

3. Concise Explanation of Relevance:

☒ A concise explanation of relevance of the items listed on forms PTO/SB/08B is not given.

☐ A concise explanation of relevance of [some of] the items listed on forms PTO/SB/08A and PTO/SB/08B is in the form of an English language copy of a Search Report from a foreign

patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

4. Related Applications:

☐ Applicant(s) brings to the Office's attention the following related application(s): U.S. Patent Application No. * filed *, now U.S. Patent No. *.

5. Conclusion:

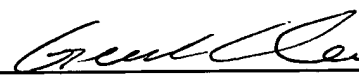
Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; and
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

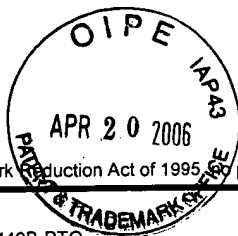
It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached forms PTO/SB/08B with initials or other appropriate marks. In the unlikely event that the transmittal letter is separated from this document and the U.S. Patent Office determines that an extension and/or other relief is required, Applicant(s) petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 50-2518**, referencing **OI7030762001**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: 4/14/06

By: 
Gerald Chan
Registration No. 51,541

Bingham McCutchen LLP
3 Embarcadero Center, Suite 1800
San Francisco, California 94111
Telephone: (650) 849-4960
Facsimile: (650) 849-4800



PTO/SB/08B (10-01)

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Substitute for form 1449B-PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/645,987
Filing Date	August 22, 2003
First Named Inventor	Tirthankar Lahiri
Art Unit	2189
Examiner Name	Reba I. Elmore
Attorney Docket Number	OI7030762001

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	1	ACHARYA, A. et al., "Tuning the Performance of I/O-Intensive Parallel Applications", <i>Proceedings of the 4th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1996, pp. 15 - 27, USA.	
	2	BAGRODIA, R. et al., "Parallel Simulation of Parallel File Systems and I/O Programs", <i>Proceedings of the 1997 ACM/IEEE Conference on Supercomputing (CDROM)</i> , ACM Press, 1997, pp. 1 - 16.	
	3	BORDAWEKAR, R. et al., "A Model and Compilation Strategy for Out-of-Core Data Parallel Programs", <i>ACM SIGPLAN Notices, Proceedings of the 5th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming PPOPP</i> , 1995, Volume 30, Issue 8, pp. 1 - 10.	
	4	BORDAWEKAR, R. et al., "Automatic Optimization of Communication in Compiling Out-of-core Stencil Codes", <i>Proceedings of the 10th International Conference on Supercomputing</i> , ACM Press, 1996, pp. 366 - 373, USA.	
	5	BORDAWEKAR, R. et al., "Communication Strategies for Out-of-Core Programs on Distributed Memory Machines", <i>Proceedings of the 9th International Conference on Supercomputing</i> , ACM Press, 1995, pp. 395 - 403, Spain.	
	6	BORDAWEKAR, R. et al., "Design and Evaluation of Primitives for Parallel I/O", <i>Proceedings of the 1993 ACM/IEEE Conference on Supercomputing</i> , ACM Press, 1993, pp. 452 - 461.	
	7	BORDAWEKAR, R., "Implementation of Collective I/O in the Intel Paragon Parallel File System: Initial Experiences", <i>Proceedings of the 11th International Conference on Supercomputing</i> , ACM Press, 1997, pp. 20 - 27, Austria.	
	8	CHEN, Y. et al., "Optimizing Collective I/O Performance on Parallel Computers: A Multisystem Study", <i>Proceedings of the 11th International Conference on Supercomputing, ACM Press and IEEE Computer Society</i> , 1997, pp. 28 - 35, Austria.	
	9	CHEN, Y., et al., "Automatic Parallel I/O Performance Optimization in Panda", <i>Proceedings of the 10th Annual ACM Symposium on Parallel Algorithms and Architectures</i> , ACM, 1998, pp. 108 - 118, Mexico.	
	10	CORBETT, P., et al., "The Vesta Parallel File System", <i>ACM Transactions on Computer Systems</i> , ACM Press, Vol. 14, no. 3, pp. 225 - 264.	
	11	CORTES, T., et al., "Design Issues of a Cooperative Cache with No Coherence Problems", <i>Proceedings of the 5th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1997, pp. 37 - 46.	
	12	DEL ROSARIO, J. et al., "Improved Parallel I/O via a Two-phase Run-Time Access Strategy", <i>ACM SIGARCH Computer Architecture News</i> , 1993, Vol. 21 No. 5, pp. 31 - 38.	
	13	DICKENS, P., "An Evaluation of Java's I/O Capabilities for High-Performance Computing", <i>Proceedings of the ACM 2000 Conference on Java Grande</i> , ACM, 2000, pp. 26 - 35, USA.	
	14	FERREIRA, R. et al., "Compiling Object-Oriented Data Intensive Applications", <i>Proceedings of the 14th International Conference on Supercomputing</i> , ACM Press, 2000, pp. 11 - 21, USA.	
	15	GIBSON et al., "Strategic Directions in Storage I/O Issue in Large-Scale Computing", <i>ACM Computing Surveys (CSUR)</i> , ACM Press, 1996, Vol. 28 No. 4, pp. 779 - 793.	
	16	GROSS, T. et al., "Architecture Implications of High-Speed I/O for Distributed-Memory Computers", <i>Proceedings of the 8th International Conference on Supercomputing</i> , ACM Press, 1994, pp. 176 - 185, U.K.	
	17	HARRY, M. et al., "The Design of VIP-FS: A Virtual, Parallel File System for High Performance Parallel and Distributed Computing", <i>ACM SIGOPS Operating Systems Review</i> , ACM Press, 1995, Vol. 29 No. 3, pp. 35 - 48.	

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Application Number	10/645,987
Filing Date	August 22, 2003
First Named Inventor	Tirthankar Lahiri
Art Unit	2189
Examiner Name	Reba I. Elmore
Attorney Docket Number	OI7030762001

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	1	KOTZ, D. et al., "Dynamic File-Access Characteristics of a Production Parallel Scientific Workload", <i>Proceedings of the 1994 ACM/IEEE Conference on Supercomputing</i> , ACM Press, 1994, pp. 640 - 649.	
	2	KOTZ, D. et al., "Flexibility and Performance of Parallel File Systems", <i>SIGOPS Operating Systems Review</i> , ACM Press, 1994, Volume 30 Issue 2, pp 63 - 73.	
	3	KOTZ, D., "Disk-Directed I/O for MIMD Multiprocessors", <i>ACM Transactions on Computer Systems (TOCS)</i> , ACM Press, Vol.15, No. 1, February 1997, pp. 41 - 74, USA.	
	4	KRIEGER, O. et al., "A Performance-Oriented Flexible File System based on Building-Block Compositions", <i>Proceedings of the 4th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1996, pp. 95 - 108, USA.	
	5	KRIEGER, O. et al., "HFS: A Performance-Oriented Flexible File System Based on Building-Block Compositions", <i>ACM Transactions on Computer Systems (TOCS)</i> , ACM Press, Vol. 15 No. 3, ACM, 1997, pp. 286-321.	
	6	KURC, T. et al., "Querying Very Large Multi-Dimensional Datasets in ADR", <i>Proceedings of the 1999 ACM/IEEE Conference on Supercomputing</i> , ACM Press, 1999, pp. 1 - 15, USA.	
	7	LEE, J. et al., "Active Buffering Plus Compressed Migration: An Integrated Solution to Parallel Simulations' Data Transport Needs", <i>Proceedings of the 16th International Conference on Supercomputing</i> , ACM Press, 2002, pp. 156 - 166, New York, New York, USA.	
	8	MACHE, J. et al., "The Impact of Spatial Layout of Jobs of Parallel I/O Performance", <i>Proceedings of the 6th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1999, pp. 45 - 56, USA.	
	9	MADHYASTHA, T. et al., "Informed Prefetching of Collective Input/Output Requests", <i>Proceedings of the 1999 ACM/IEEE Conference on Supercomputing</i> , ACM Press, 1999, pp. 1 - 16, USA.	
	10	MOORE, J.A. et al., "Efficient Data-Parallel Files via Automatic Mode Detection", <i>Proceedings of the 4th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1996, pp. 1 - 14, USA.	
	11	NIEUWEJAAR, N. et al., "Performance of the Galley Parallel File System", <i>Proceedings of the 4th Workshop on I/O in Parallel and Distributed Systems: Part of the Federated Computing Research Conference</i> , ACM Press, 1996, pp. 83 - 94, USA.	
	12	NO, J. et al., "Integrating Parallel File I/O and Database Support for High-Performance Scientific Data Management", <i>Proceedings of the 2000 ACM/IEEE Conference on Supercomputing (CDROM)</i> , IEEE Computer Society, pp. 1 - 13, USA.	
	13	PARK, Y. et al., "Virtual Memory Versus File Interfaces for Large, Memory-Intensive Scientific Applications", <i>Proceedings of the 1996 ACM/IEEE Conference on Supercomputing (CDROM)- Volume 00 Supercomputing '96</i> , ACM Press, IEEE Computer Society, 1996, pp. 1 - 20.	
	14	PURAKAYASTHA, A. et al., "ENWRICH: A Compute-Processor Write Caching Scheme for Parallel File Systems", <i>Proceedings of the 4th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1996, pp. 55 - 68.	
	15	SHEN, X. et al., "A Novel Application Development Environment for Large-Scale Scientific Computations", <i>Proceedings of the 14th International Conference on Supercomputing</i> , ACM Press, 2000, pp. 274 - 283, USA.	
	16	SHUF, Y. et al., "Characterizing the Memory Behavior of JAVA Workloads: A Structured View and Opportunities for Optimization", <i>Proceedings of the 2001 ACM SIGMETRICS International Conference on Measurement and Modeling of Computer Systems SIGMETRICS '01</i> , ACM Press, 2001, Vol. 29 No. 1, pp. 194 - 205.	

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Sheet

3

of

3

Application Number

10/645,987

Filing Date

August 22, 2003

First Named Inventor

Tirthankar Lahiri

Art Unit

2189

Examiner Name

Reba I. Elmore

Attorney Docket Number

OI7030762001

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	1	STEENKISTE, P. et al., "Architecture and Evaluation of a High-Speed Networking Subsystem for Distribution-Memory Systems"; ACM SIGARCH Computer Architecture News, <i>Proceedings of the 21st Annual International Symposium on Computer Architecture ISCA '94</i> , IEEE Computer Society Press, ACM Press, 1994, Vol. 22 No. 2, pp 154 - 163.	
	2	STURTEVANT, J. et al., "PDS/PIO: Lightweight Libraries for Collective Parallel I/O", <i>Proceedings of the 1998 ACM/IEEE Conference on Supercomputing (CDROM)</i> , IEEE Computer Society, 1998, pp. 1 -13.	
	3	THAKUR, R. et al., "A Case for Using MPI's Derived Datatypes to Improve I/O Performance", <i>Proceedings of the 1998 ACM/IEEE Conference on Supercomputing(CDROM)</i> , IEEE Computer Society, 1998, pp. 1 - 14.	
	4	THAKUR, R. et al., "Compilation of Out-of-Core Data Parallel Programs for Distributed Memory Machines", <i>ACM SIGARCH Computer Architecture News</i> , ACM Press, Vol. 22 Issue 4, 1994, pp. 23 - 28.	
	5	THAKUR, R. et al., "On Implementing MPI-IO Portably and with High Performance", <i>Proceedings of the 6th Workshop of I/O in Parallel and Distributed Systems</i> , ACM Press, 1999, pp. 23 - 32, USA.	
	6	THAKUR, R., et al., "Compiler and Runtime Support for Out-of-Core HPF Programs", <i>Proceedings of the 8th International Conference on Supercomputing</i> , 1994, ACM Press, pp. 382 - 391.	
	7	VITTER, J., "External Memory Algorithms and Data Structures: Dealing with Massive Data; <i>ACM Computing Surveys (CSUR)</i> , Vol. 33 No. 2, pp. 209 - 271, 2001.	
	8	WANG, Y. et al., "Profile-Guided I/O Partitioning", <i>Proceedings of the 17th Annual International Conference on Supercomputing</i> , ACM, 2003, pp. 252 - 260, USA.	
	9	WU, J. et al., "Placement of I/O Servers to Improve Parallel I/O Performances on Switch-Based Clusters", <i>Proceedings of the 17th Annual International Conference on Supercomputing</i> , ACM Press, 2003, pp. 244 - 251, USA.	
	10	ZHOU, Y. et al., "Thread Scheduling for Out-of-Core Applications With Memory Server on Multicomputers", <i>Proceedings of the 6th Workshop on I/O in Parallel and Distributed Systems</i> , ACM Press, 1999, pp. 57 - 67, USA.	
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